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REMOTE MEDICAL DIAGNOSIS SYSTEM (RMDS): SHIPBOARD INSTALLATION --ETC(U)
APR 80 W T RASMUSSEN, I STEVENS
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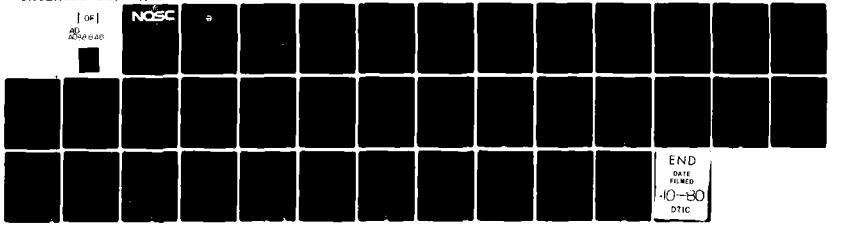

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Technical Document 349

REMOTE MEDICAL DIAGNOSIS SYSTEM (RMDS): SHIPBOARD INSTALLATION AND WIRING ON USS ENTERPRISE, CVN-65

W T Rasmussen
and
I Stevens

April 1980

Final Report: January — March 1978

Prepared for
Naval Medical Research and Development Command

NAVAL OCEAN SYSTEMS CENTER
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SL GUILLE, CAPT, USN
Commander

HL BLOOD
Technical Director

ADMINISTRATIVE INFORMATION

This report is one in a series of reports for the Remote Medical Diagnosis System (RMDS), NOSC Work Unit CM38, sponsored by the Naval Medical Research and Development Command. This document is based on work performed by the Naval Electronic Systems Engineering Center, Vallejo, California, between 1 January 1978 and 17 March 1978. Contained in this document are specifications and schematics for electrical cable runs and installation of RMDS Advanced Development Model (ADM) aboard the USS ENTERPRISE, CVN-65.

The RMDS ADM was tested for technical performance at sea by Ilya Stevens and Patrick D. Hayes of the Naval Ocean Systems Center (NOSC), Biomedical Engineering Branch, Code 8233, and James West of WESTEC Services, Inc., under the direction of Dr. W.T. Rasmussen, Head, Code 8233.

Released by
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Under authority of
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NOSC, Code 82

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I. INTRODUCTION

The mission of the Remote Medical Diagnosis System (RMDS) is to improve medical diagnosis at remote sites. This is accomplished by transmitting medical data and diagnostic information between remote ship or shore sites and full-capability medical centers. The RMDS will enable the medical personnel at a remote site to contact a physician at a diagnostic center (ashore or shipboard) and transmit a visual and auditory presentation of the medical data needed for diagnosis, such as patient history, laboratory tests, ECG tracings, x-ray images, images of a patient injury, heart-lung sounds, and verbal descriptions. By return link, the physician will be able to send diagnosis and treatment information. The communication requirements for this are satisfied by any two-way, voice-grade, narrowband communication channel such as telephone line, HF or UHF radio, or satellite links.

The system as a whole consists essentially of the Remote Medical Diagnosis Terminals (RMDTs), user personnel, and existing voice-grade communication links which can be used to interconnect the terminals. All the hardware which is unique to the system is contained in the terminals, including a TV camera, TV monitor, x-ray light box, electronic stethoscope, ECG monitor, audio tape recorder, audio handsets, and the electronics package, consisting of signal modulator, demodulator, and modems.

Shipboard feasibility tests of an early RMDS were completed during FY-75/76. This testing showed that the concept was feasible and that equipment could be developed to meet the requirements using available technology. Advanced Development Models (ADMs) were specified and procured in September 1977.

The USS ENTERPRISE (CVN-65) was designated as the test ship for the at-sea tests of the RMDS ADMs. The at-sea tests were performed in February and March 1978. One of the RMDS units was installed in the sickbay area on board the USS ENTERPRISE. The second RMDS unit was located at the Naval Ocean Systems Center (NOSC), San Diego, California.

All work on the cable runs, their design and installation, and the choice of cable routes were performed by the Naval Electronic Systems Engineering Center, Vallejo, California. This work was performed in accordance with the drawings and specifications contained in this report.

II. CABLE RUNNING LISTS

This section contains the cable run lists used for wiring and installation.

REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED

REFERENCES		
NO.	TITLE	DRAWING NO.
1	RMDS ARR & FDNS	CVN-65-445-4791576
2	RMDS BLK & ELEM	CVN-65-409-4791578

1 10 20 30 40
RMDS CABLE RUNNING LISTS
41 50 80

TOLERANCES:

MATERIAL:

DESIGN AGENT: NAVELEX

DRAWN 6&E 1/4/ PROJ. ENGR. 6&E 1/4/

TRACED PROJ. HEAD

CHECKED DIV. HEAD

APPROVED DEPT. HEAD

APPROVED NAVELEX DATE:
CHIEF ENGINEER

SATISFACTORY TO: DATE:

FOR:

NAVAL ELECTRONIC SYSTEMS ENGINEERING CENTER VALLEJO
VALLEJO, CALIFORNIA 94592

REMOTE MEDICAL DIAGNOSIS SYSTEM (RMDS)

CABLE RUNNING LISTS

SIZE	CODE IDENT. NO.	DRAWING NO.			REV.
A	14203	CVN-65	409	4791577	~
SCALE		WEIGHT		SH 1	OF 11

★ GPO 703-570

GENERAL NOTES:

1. INSTALLATION OF CABLES WITHIN SECURE AND NON-SECURE SPACES SHALL BE IN ACCORDANCE WITH MIL-STD-1680 (SHIPS) AND MIL-STD-1310C RESPECTIVELY. SEE REF 2 SHEET

2. CABLE INSTALLATION SHALL BE IN ACCORDANCE WITH NS 0967-000-0110.

3. REMOVE EXISTING WIRING FROM TWO REMOTE POSITIONS ON SB-863 TRANSMITTER SWITCHBOARDS DESIGNATED BY SHIPS FORCE AND HOOK UP CABLES R-RQ-MED1 AND R-RQ-MED2 TO SAME.

4. REMOVE EXISTING WIRING FROM TWO REMOTE POSITIONS ON SB-82 RECEIVER SWITCHBOARDS DESIGNATED BY SHIPS FORCE AND HOOK UP CABLES R-RR-MED1 AND R-RR-MED2 TO SAME.

5. R-RQ-MED1, R-RQ-MED2 AND R-RQ-MED1A CABLE ROUTE AS FOLLOWS:

   A. 2ND DECK, FRAME 120, WARD 1
   B. 2ND DECK, FRAME 124, WARD 2
   C. 2ND DECK, FRAME 124, PORT PASSAGE
   D. MAIN DECK, FRAME 124, PORT
   E. 01 LEVEL, FRAME 122, PORT
   F. 02 LEVEL, FRAME 122, PORT
   G. 03 LEVEL, FRAME 122, PORT
   H. 03 LEVEL, FRAME 121, PORT PASSAGE 03-121-6
   I. 03 LEVEL, FRAME 121-104 PORT PASSAGE
   J. 03 LEVEL, FRAME 104 PORT/STBD ATHWART PASSAGE
   K. 03 LEVEL, FRAME 104-20 STBD PASSAGE
   L. 03 LEVEL, FRAME 20, STBD, RADIO CENTRAL

6. CABLES SHALL BE ROUTED IN EXISTING CABLE WAYS WHEREVER POSSIBLE. IF NEW CABLE ROUTES ARE REQUIRED, NEW CABLE SUPPORTS SHALL BE INSTALLED IN ACCORDANCE WITH NS 0967-000-0110.

SIZE	CODE IDENT	DRAWING NO.			REV.
A	14203	CVN-65	409	4791577	
SCALE		WEIGHT		SH 2 OF 11	

LEAD NO. (2-00-MED1)			CABLE TYPE 2SU10			ACTIVE COND 16
UNIT A CM-143			CONNECTOR TYPE MS3216F20-41SY	UNIT B GNDBOXSYM434		CONNECTOR TYPE BX
NO	PAIR NO	COLOR CODE	TERMINAL	WIRE MARKING	TERMINAL	WIRE MARKING	REMARKS
1	1		J14-J	J14-J/TB1-1	TB1-1	TB1-1/J14-J	XMT DATA
2	1		J14-K	J14-K/TB1-2	TB1-2	TB1-2/J14-K	XMT DATA RTN
3	2		J14-L	J14-L/TB1-3	TB1-3	TB1-3/J14-L	XMT CLK
4	2		J14-M	J14-M/TB1-4	TB1-4	TB1-4/J14-M	XMT CLK RTN
5	3		J14-N	J14-N/TB1-5	TB1-5	TB1-5/J14-N	RCV DATA
6	3		J14-P	J14-P/TB1-6	TB1-6	TB1-6/J14-P	RCV DATA RTN
7	4		J14-R	J14-R/TB1-7	TB1-7	TB1-7/J14-R	RCV CLK
8	4		J14-S	J14-S/TB1-8	TB1-8	TB1-8/J14-S	RCV CLK RTN
9	5		J14-T	J14-T/TB1-9	TB1-9	TB1-9/J14-T	DATA KEY
10	5		J14-U	J14-U/TB1-10	TB1-10	TB1-10/J14-U	DATA KEY RTN
11	6		J14-V	J14-V/TB1-11	TB1-11	TB1-11/J14-V	CH BUSY
12	6		J14-W	J14-W/TB1-12	TB1-12	TB1-12/J14-W	CH BUSY RTN
13	7		J14-h	J14-h/TB1-13	TB1-13	TB1-13/J14-h	ALM RESET
14	7		J14-i	J14-i/TB1-14	TB1-14	TB1-14/J14-i	ALM RESET RTN
15	8		J14-j	J14-j/TB1-15	TB1-15	TB1-15/J14-j	ALM IND
16	8		J14-k	J14-k/TB1-16	TB1-16	TB1-16/J14-k	ALM IND RTN
17	9		GND	SPARE	GND	SPARE	SPARE
18	9		GND	SPARE	GND	SPARE	SPARE
19	10		GND	SPARE	GND	SPARE	SPARE
20	10		GND	SPARE	GND	SPARE	SPARE
21							
22							
23							
24							
25				NOTE: GROUND SHIELDS AND SPARE WIRES AT			
26				BOTH ENDS OF CABLE IN ACCORDANCE			
27				WITH MIL-STD-1680 (SHIPS), SEE REF			
28				2 SHEET			
29							
30							
31							
32							
33							
34							
35							
36							

CABLE RUNNING LIST

SIZE	CODE IDENT	DRAWING NO.			REV.
A	14203	CVN-65	409	4791577	
SCALE		WEIGHT		SH 3 OF 11	

LEAD NO R-DD-MEDIA			CABLE TYPE 2SU10				ACTIVE COND 16
UNIT A MDBOXSY1434			CONNECTOR TYPE BX	UNIT B CHMDBOXSY1522.1			CONNECTOR TYPE BX
NO	PAIR NO	COLOR CODE	TERMINAL	WIRE MARKING	TERMINAL	WIRE MARKING	REMARKS
1	1		TB1-1	TB1-1/TB2-5	TB2-5	TB2-5/TB1-1	XMT DATA
2	1		TB1-2	TB1-2/TB2-6	TB2-6	TB2-6/TB1-2	XMT DATA RTN
3	2		TB1-3	TB1-3/TB2-7	TB2-7	TB2-7/TB1-3	XMT CLK
4	2		TB1-4	TB1-4/TB2-8	TB2-8	TB2-8/TB1-4	XMT CLK RTN
5	3		TB1-5	TB1-5/TB2-9	TB2-9	TB2-9/TB1-5	RCV DATA
6	3		TB1-6*	TB1-6/TB2-10	TB2-10	TB2-10/TB1-6	RCV DATA RTN
7	4		TB1-7	TB1-7/TB2-11	TB2-11	TB2-11/TB1-7	RCV CLK
8	4		TB1-8	TB1-8/TB2-12	TB2-12	TB2-12/TB1-8	RCV CLK RTN
9	5		TB1-9	TB1-9/TB2-13	TB2-13	TB2-13/TB1-9	DATA KEY
10	5		TB1-10	TB1-10/TB2-14	TB2-14	TB2-14/TB1-10	DATA KEY RTN
11	6		TB1-11	TB1-11/TB2-15	TB2-15	TB2-15/TB1-11	CH BUSY
12	6		TB1-12	TB1-12/TB2-16	TB2-16	TB2-16/TB1-12	CH BUSY RTN
13	7		TB1-13	TB1-13/TB2-17	TB2-17	TB2-17/TB1-13	ALM RESET
14	7		TB1-14	TB1-14/TB2-18	TB2-18	TB2-18/TB1-14	ALM RESET RTN
15	8		TB1-15	TB1-15/TB2-19	TB2-19	TB2-19/TB1-15	ALM IND
16	8		TB1-16	TB1-16/TB2-20	TB2-20	TB2-20/TB1-16	ALM IND RTN
17	9		GND	SPARE		SPARE	SPARE
18	9		GND	SPARE		SPARE	SPARE
19	10		GND	SPARE		SPARE	SPARE
20	10		GND	SPARE		SPARE	SPARE
21							
22							
23							
24							
25				NOTE: GROUND SHIELDS TO CHASSIS AT			
26				BOTH ENDS OF CABLE.			
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							

CABLE RUNNING LIST

SIZE	CODE IDENT	DRAWING NO.			REV.
A	14203	CVN-65	409	4791577	
SCALE		WEIGHT		SH 4 OF 11	

★ GPO 793-570 Printed on Bruning 40-532

HEAD NO. R-RO-MED1			CABLE TYPE TTRS-B				ACTIVE COND 14
UNIT A SB-863			CONNECTOR TYPE BX		UNIT B COMBOXSYM522.1		CONNECTOR TYPE BX
NO	PAIR NO	COLOR CODE	TERMINAL	WIRE MARKING	TERMINAL	WIRE MARKING	REMARKS
1	1		R-1	R-1/TB1-1	TB1-1	TB1-1/R-1	START
2	1		R-2	R-2/TB1-2	TB1-2	TB1-2/R-2	COMMON
3	2		R-3	R-3/TB1-3	TB1-3	TB1-3/R-3	STOP
4	2		R-4	R-4/TB1-4	TB1-4	TB1-4/R-4	POWER IND
5	3		R-5	R-5/TB1-5	TB1-5	TB1-5/R-5	CW KEY
6	3		R-6	R-6/TB1-6	TB1-6	TB1-6/R-6	CW KEY RTN
7	4		R-7	R-7/TB1-7	TB1-7	TB1-7/R-7	-12VDC
8	4		R-8	R-8/TB1-8	TB1-8	TB1-8/R-8	+12VDC
9	5		R-9	R-9/TB1-9	TB1-9	TB1-9/R-9	MODULATOR
10	5		R-10	R-10/TB1-10	TB1-10	TB1-10/R-10	MODULATOR
11	6		R-11	R-11/TB1-11	TB1-11	TB1-11/R-11	PUSH TO TALK
12	6		R-12	R-12/TB1-12	TB1-12	TB1-12/R-12	CARRIER IND
13	7	*	SPLICE	SPL1/TB1-13	TB1-13	TB1-13/SPL1	RCV AUDIO
14	7	*	SPLICE	SPL2/TB1-14	TB1-14	TB1-14/SPL2	RCV AUDIO
15	8			SPARE		SPARE	SPARE
16	8			SPARE		SPARE	SPARE
17							
18							
19							
20							
21		*	INLINE SPLICE TO CABLE R-RO-MED1				
22							
23							
24			NOTE: GROUND CABLE SHIELDS TO CHASSIS AT BOTH ENDS OF CABLE				
25							
26			REMOVE EXISTING WIRES ON SB-863				
27			REMOTE POSITION DESIGNATED BY				
28			SHIPS FORCE. IDENTIFY, LABEL				
29			INSULATE AND TIE BACK EXISTING WIRES.				
30			HOOK UP NEW CABLE R-RO-MED1				
31			TO REMOTE TERMINALS PREVIOUSLY				
32			VACATED.				
33							
34							
35							
36							

CABLE RUNNING LIST

SIZE	CODE IDENT	DRAWING NO.			REV.
A	14203	CVN-65	409	4791577	
SCALE		WEIGHT		SH 5 OF 11	

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LEAD NO R-RO-MED2			CABLE TYPE TTRS-8				ACTIVE COND 14
UNIT A SB-863			CONNECTOR TYPE BX		UNIT B CONBOXSYM522.1		CONNECTOR TYPE BX
NO	PAIR NO	COLOR CODE	TERMINAL	WIRE MARKING	TERMINAL	WIRE MARKING	REMARKS
1	1		R-1	R-1/TB1-15	TB1-15	TB1-15/R-1	START
2	1		R-2	R-2/TB1-16	TB1-16	TB1-16/R-2	COMMON
3	2		R-3	R-3/TB1-17	TB1-17	TB1-17/R-3	STOP
4	2		R-4	R-4/TB1-18	TB1-18	TB1-18/R-4	POWER IND
5	3		R-5	R-5/TB1-19	TB1-19	TB1-19/R-5	CW KEY
6	3		R-6	R-6/TB1-20	TB1-20	TB1-20/R-6	CW KEY RTN
7	4		R-7	R-7/TB1-21	TB1-21	TB1-21/R-7	-12VDC
8	4		R-8	R-8/TB1-22	TB1-22	TB1-22/R-8	+12VDC
9	5		R-9	R-9/TB1-23	TB1-23	TB1-23/R-9	MODULATION
10	5		R-10	R-10/TB1-24	TB1-24	TB1-24/R-10	MODULATION
11	6		R-11	R-11/TB2-1	TB2-1	TB2-1/R-11	PUSH TO TALK
12	6		R-12	R-12/TB2-2	TB2-2	TB2-2/R-12	CARRIER IND
13	7	*	SPLICE	SPL1/TB2-3	TB2-3	TB2-3/SPL1	RCV AUDIO
14	7	*	SPLICE	SPL2/TB2-4	TB2-4	TB2-4/SPL2	RCV AUDIO
15	8			SPARE		SPARE	SPARE
16	8			SPARE		SPARE	SPARE
17							
18							
19							
20							
21		*	INCLINE SPLICE TO CABLE R-RO-MED2				
22							
23							
24			NOTE: GROUND CABLE SHIELDS TO CHASSIS				
25			AT BOTH ENDS OF CABLE				
26							
27			REMOVE EXISTING WIRES ON SB-863				
28			REMOTE POSITION DESIGNATED BY				
29			SHIPS FORCE. IDENTIFY, LABEL,				
30			INSULATE AND TIE BACK EXISTING WIRES.				
31			HOOK UP NEW CABLE R-RO-MED2				
32			TO REMOTE TERMINALS PREVIOUSLY				
33			VACATED.				
34							
35							
36							

CABLE RUNNING LIST	SIZE	CODE IDENT	DRAWING NO.			REV.
	A	14203	CVN-65	409	4791577	
	SCALE		WEIGHT		SH 6 OF 11	

☆ GPO 793-570 Printed on Bruning 40-532

LEAD NO. R-RR-MED1			CABLE TYPE RG-108			ACTIVE COND 2
UNIT A SB-82			CONNECTOR TYPE BX	UNIT B SB-863		CONNECTOR TYPE BX
NO.	PAIR NO.	COLOR CODE	TERMINAL	WIRE MARKING	TERMINAL	WIRE MARKING	REMARKS
1	1	*	RMT	RMT/SPL1	SPLICE	SPL1/RMT	RCV AUDIO
2	1	*	RMT	RMT/SPL2	SPLICE	SPL2/RMT	RCV AUDIO
3							
4							
5							
6							
7		*	INLINE SPLICE TO CABLE R-RR-MED1				
8							
9							
10			NOTE: GROUND SHIELD TO CHASSIS				
11			AT BOTH ENDS OF CABLE				
12							
13			REMOVE EXISTING WIRES ON SB-82				
14			REMOTE POSITION DESIGNATED BY				
15			SHIPS FORCE. IDENTIFY, LABEL,				
16			INSULATE AND TIE BACK EXISTING				
17			WIRES. HOOK UP NEW CABLE R-RR-MED1				
18			TO REMOTE TERMINALS PREVIOUSLY				
19			VACATED.				
20							
21							
22							
23							
24							
25							
26							
27							
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29							
30							
31							
32							
33							
34							
35							
36							

CABLE RUNNING LIST

SIZE	CODE IDENT	DRAWING NO.			REV.
A	14203	CVN-65	409	4791577	
SCALE		WEIGHT		SH 7 OF 11	

LEAD NO. R-8R-MED2			CABLE TYPE RG-108				ACTIVE COND 2
UNIT A SB-82			CONNECTOR TYPE BX		UNIT B SB-863		CONNECTOR TYPE BX
NO.	PAIR NO.	COLOR CODE	TERMINAL	WIRE MARKING	TERMINAL	WIRE MARKING	REMARKS
1	1	*	RMT	RMT/SPL1	SPLICE	SPL1/RMT	RCV AUDIO
2	1	*	RMT	RMT/SPL2	SPLICE	SPL2/RMT	RCV AUDIO
3							
4							
5							
6							
7		*	INLINE SPLICE TO CABLE R-8R-MED2				
8							
9							
10			NOTE: GROUND SHIELD TO CHASSIS AT				
11			BOTH ENDS OF CABLE				
12							
13			REMOVE EXISTING WIRES ON SB-82				
14			REMOTE POSITION DESIGNATED BY				
15			SHIPS FORCE. IDENTIFY, LABEL,				
16			INSULATE AND TIE BACK EXISTING				
17			WIRES. HOOK UP NEW CABLE R-8R-MED2				
18			TO REMOTE TERMINALS PREVIOUSLY				
19			VACATED.				
20							
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CABLE RUNNING LIST

SIZE	CODE IDENT	DRAWING NO.			REV.
A	14203	CVN-65	409	4791577	
SCALE		WEIGHT		SH 8 OF 11	

* GPO 700-070 Printed on Drawing 40-532

LEAD NO. R-RP-MED1			CABLE TYPE 3SJ14				ACTIVE COND 2
UNIT A PWR PNL			CONNECTOR TYPE BX		UNIT B AC RECEP		CONNECTOR TYPE BX
NO.	PAIR NO.	COLOR CODE	TERMINAL	WIRE MARKING	TERMINAL	WIRE MARKING	REMARKS
1		BLK	BRK1-C	115VAC/PH C	1	115VAC/PH C	115VAC PHASE C
2		WHT	BRK1-A	115VAC/PH A	2	115VAC/PH A	115VAC PHASE A
3		RED	GND	GND	GND	GND	GROUND
4							
5							
6			NOTE:	GROUND SHIELD TO CHASSIS			
7				AT BOTH ENDS OF CABLE			
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
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CABLE RUNNING LIST

SIZE	CODE IDENT	DRAWING NO.			REV.
A	14203	CVN-65	409	4791577	
SCALE		WEIGHT		SH 9 OF 11	

GPO 793-870 Printed on Bruning 40-532

LEAD NO	R-RP-MED2	CABLE TYPE	3SJ14			ACTIVE COND 2
UNIT A	PUR PNL	CONNECTOR TYPE	BX	UNIT B	AC RECEP	CONNECTOR TYPE BX
NO	PAIR NO	COLOR CODE	TERMINAL	WIRE MARKING	TERMINAL	WIRE MARKING	REMARKS
1		BLK	BRK2-C	115VAC/PH C	1	115VAC/PH C	115VAC PHASE C
2		WHT	BRK2-B	115VAC/PH B	2	115VAC/PH B	115VAC PHASE B
3		RED	GND	GND	GND	GND	GROUND
4							
5							
6			NOTE:	GROUND SHIELD TO CHASSIS			
7				AT BOTH ENDS OF CABLE.			
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							

CABLE RUNNING LIST

SIZE	CODE IDENT	DRAWING NO.			REV.
A	14203	CVN-65	409	4791577	
SCALE		WEIGHT		SH 10 OF 11	

☆ GPO 793-578 Printed on Brunning 40-532

LEAD NO R-RP-MED3			CABLE TYPE 3SJ14			ACTIVE COND 2
UNIT A PWR PNL			CONNECTOR TYPE BX	UNIT B RMDS RACK		CONNECTOR TYPE BX
NO	PAIR NO	COLOR CODE	TERMINAL	WIRE MARKING	TERMINAL	WIRE MARKING	REMARKS
1		BLK	BRK3-C	115VAC/PH C	1	115VAC/PH C	115VAC PHASE C
2		WHT	BRK3-A	115VAC/PH A	2	115VAC/PH A	115VAC PHASE A
3		RED	GND	GND	GND	GND	GROUND
4							
5							
6			NOTE: GROUND SHIELD TO CHASSIS				
7			AT BOTH ENDS OF CABLE.				
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							

CABLE RUNNING LIST

SIZE	CODE IDENT	DRAWING NO.			REV.
A	14203	CVN-65	409	4791577	
SCALE		WEIGHT		SH 11 OF 11	

☆ GPO 793-378 Printed on Bruning 40-532

III. RMDS SHIPBOARD WIRING SCHEMATICS

This section contains all wiring schematics used for the shipboard installation and testing on the USS ENTERPRISE.

8 7 6 5

GENERAL NOTES:

1. INSTALLATION OF CABLES WITHIN SECURE AND NON-SECURE SPACES SHALL BE IN ACCORDANCE WITH MIL-STD-1680 (SHIPS) AND MIL-STD-1310C RESPECTIVELY.
2. INSTALLATION SHALL BE IN ACCORDANCE WITH NS 0967-000-0110.
3. NUMBER ENCLOSED IN CIRCLE (◯) DENOTES MATERIAL FIND NUMBER.
4. PARALLEL OFF EXISTING LIGHTING CIRCUIT.
5. INSTALL RUBBER MATTING IN FRONT OF RMDS OPERATING AREA.
6. CABLE LENGTHS ARE APPROXIMATE. EXACT LENGTHS TO BE DETERMINED AT TIME OF INSTALLATION.
7. ALL EQUIPMENT NEW UNLESS OTHERWISE NOTED.
8. THIS DRAWING SPECIFICALLY APPLICABLE TO SHIPS LISTED IN THE DRAWING ISSUED BLOCK, ZONE 3A.
9. INSTALL AC RECEPTACLES ON BULKHEAD IN CLOSE PROXIMITY TO RMDS CABINET AND DESK.
10. INSTALL AC POWER PANEL, PC NO 3, ON BULKHEAD IN CLOSE PROXIMITY TO RMDS CABINET AND DESK. FOUNDATION TO SUIT.

DISTRIBUTION

	VESSEL NO.	CVN 65
	REVISION	2
	DATE	1-16-78
	CVN 65	2
	NOSC	2
TYCOM	SURFPAC	
TYCOM	SURFLANT	
TYCOM	AIRPAC	1
TYCOM	AIRLANT	
TYCOM	SUBPAC	
TYCOM	SUBLANT	
SHIPYARDS	LONG BEACH	
SHIPYARDS	PUGET SOUND	1
SHIPYARDS	CHAS	
SHIPYARDS	NORFOLK	
SHIPYARDS	PEARL	
SHIPYARDS	MARE ISLAND	
SHIPYARDS	PHIL	
SHIPYARDS	PORTS	
PERA	CV	1
PERA	CSS	
PERA	CRUDES	
PERA	ASC	
	NAVSEA	1
	NAVELEX	
	TOTAL	8

NO	TITLE
2	RMDS CABLE RUNNING LISTS
1	RMDS EQUIP ARR AND FDNS

REFERENCES

4 3

INDEX

SHEET	TITLE
1	TITLE, INDEX, NOTES, REFERENCES, APPLICABILITIES
2	MATERIAL LIST
3	BLOCK WIRING DIAGRAM
4	ALTERNATE SIGNAL DETAILS
5	SHIP UNIQUE APPLICABILITY PER DET TO SELECT SPACES

REVISIONS

LTR	DESCRIPTION	DATE (YR-MO-DA)

D

C

B

PWB [illegible]

NAVAL ELECTRONIC SYSTEMS

REMOTE MEDICAL DIAGNOSIS SYSTEM

BLOCK WIRING DIAGRAM

SIZE A | CAGE CODE 0EX78 | DWG NO 699 479678 | REV

SCALE NONE | WEIGHT | SHEET 1 OF 5

CODE IDENT	NAVSEASYSCOM DRAWING NO	PREV	CVN 69 SHIP	PWB P.N.R. CODE	DATE
14233	SCALE 40) 479517				
19204	SCALE 445 479517				

DWG ISSUED FOR

A

25

1

8 6 5

D

C

B

A

GENERAL NOTES CONTINUED:

11. SEE DETAILS THIS PLAN, SHEET 5, FOR MOUNTING AND PENETRATION INSTRUCTIONS FOR GROUND BOX, PC NO 1.
12. SEE DETAILS THIS PLAN, SHEET 5, FOR SHIELD GROUND CONNECTION FOR CONNECTOR PC NO 11
13. MOUNT CONNECTION BOX, PC NO 2. ON BULKHEAD BEHIND RMDS CABINET FOUNDATION TO SUIT.
14. WIRING BETWEEN RMDS CABINET AND RMDS CONNECTION BOX, PC NO 2, IS THE RESPONSIBILITY OF NAVAL OCEAN SYSTEMS CENTER.
15. INSTALLING ACTIVITY TO FURNISH ALL NAMEPLATES, CABLE TAGS AND MISCELLANEOUS INSTALLATION HARDWARE.
16. ALL NAMEPLATES SHALL BE ENGRAVED PHENOLIC, ALL CABLE TAGS SHALL BE EMBOSSED ALUMINUM AND ALL WIRE MARKERS SHALL BE VINYL SLEEVING.

REV	QTY	PIECE NO	DESCRIPTION	IDENTIFICATION NO	UNIT WEIGHT	TOTAL WEIGHT	MATERIAL	SPEC	FEDERAL STOCK NO	REMARKS
	8	36	LOCKNUT 1/4 DIA.							USED WITH PC
	2	35	PIPE 1/4 D.A. X 5 IN LONG SCH. 40							USED WITH PC
	A/R	34	WIRE STRANDED	AWG-10						USED WITH PC
		33								
		32								
	1	31	BX CONNECTOR, 90 DEGREE							
	1	30	TERMINAL BOARD							
	3	29	NUT, HEX 3/8-16							
	3	28	WASHER LOCK 3/8							
	3	27	WASHER, FLAT 3/8							
	3	26	STUD 3/8-16							
	1	25	NIPPLE, PIPE							
	3	24	LOCK NUT							
	1	23	COUPLING, PIPE							
	1	22	BX CONNECTOR, STRAIGHT							
		21								
		20								
	35'	19	CABLE	55J-14						
	90'	18	"	56J-14						
	20'	17	"	RG-108/U						
	660'	16	"	250-10						
	300'	15	CABLE	RS-8						
		14								
		13								
	1	12	BACKSHELL							SUPPLIED W/ON-B
	1	11	CONNECTOR	MS3126F20-41SY						SUPPLIED W/ON-B
		10								
		9								
	4	8	CIRCUIT BREAKER	ALB-1 15A						USED WITH PC
	2	7	CONVENIENCE OUTLET, DUAL, AC							SEE GEN. NOTE
	3	6	DUPLEX BOX							SEE GEN. NOTE
	9	5	TRANSFORMER	STBIY52	37	111			GEN. ELECTRIC	
	1	4	LIGHT, FLUORESCENT 60W	SYMM 333.1	11	11				
	1	3	POWER PANEL 4 CKT	ALB-1	20	20				
	1	2	CONNECTION BOX	SYMM 522.1	17	17				
	1	1	CONNECTION BOX	SYMM 424	5	5				

LIST OF MATERIAL

LEGEND

GFE GOVERNMENT FURNISHED EQUIPMENT

IAF INSTALLING ACTIVITY FURNISH

REMARKS	SOURCE
USED WITH PG 55	IAF
USED WITH PG 5	IAF
USED WITH PG 5	IAF
	AF
	GFE
	AF
	AF
	IAF
	IAF
	AF
	IAF
	AF
	IAF
	GFE
	GFE
	GFE
	GFE
	GFE
SUPPLIED W/ON 143	GFE
SUPPLIED W/ON 143	GFE
USED WITH PG 5	GFE
SEE GEN. NOTE	AF
SEE GEN. NOTE	AF
	GFE
	GFE
	GFE
	GFE
	GFE

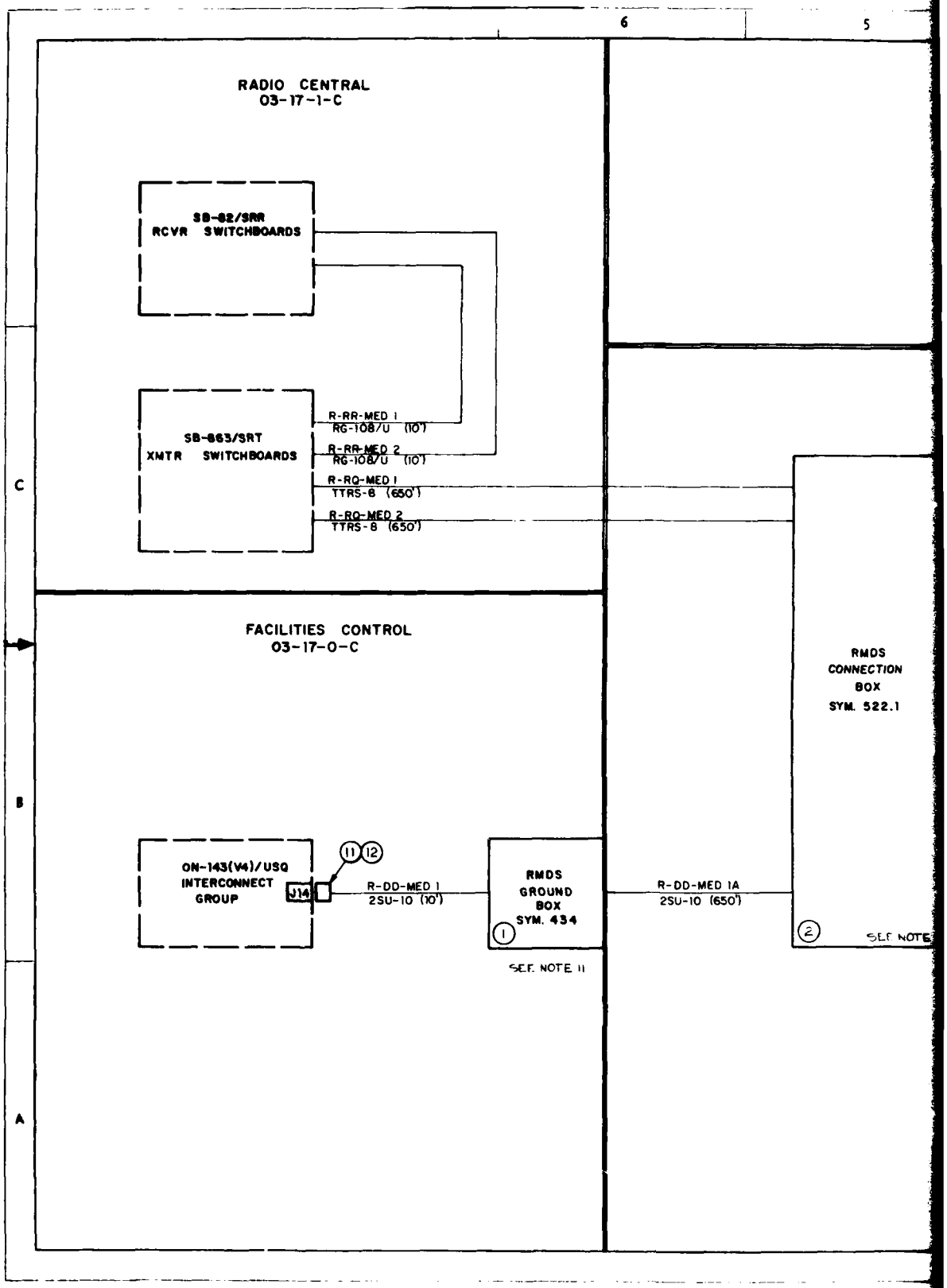
[illegible] SYSTEMS

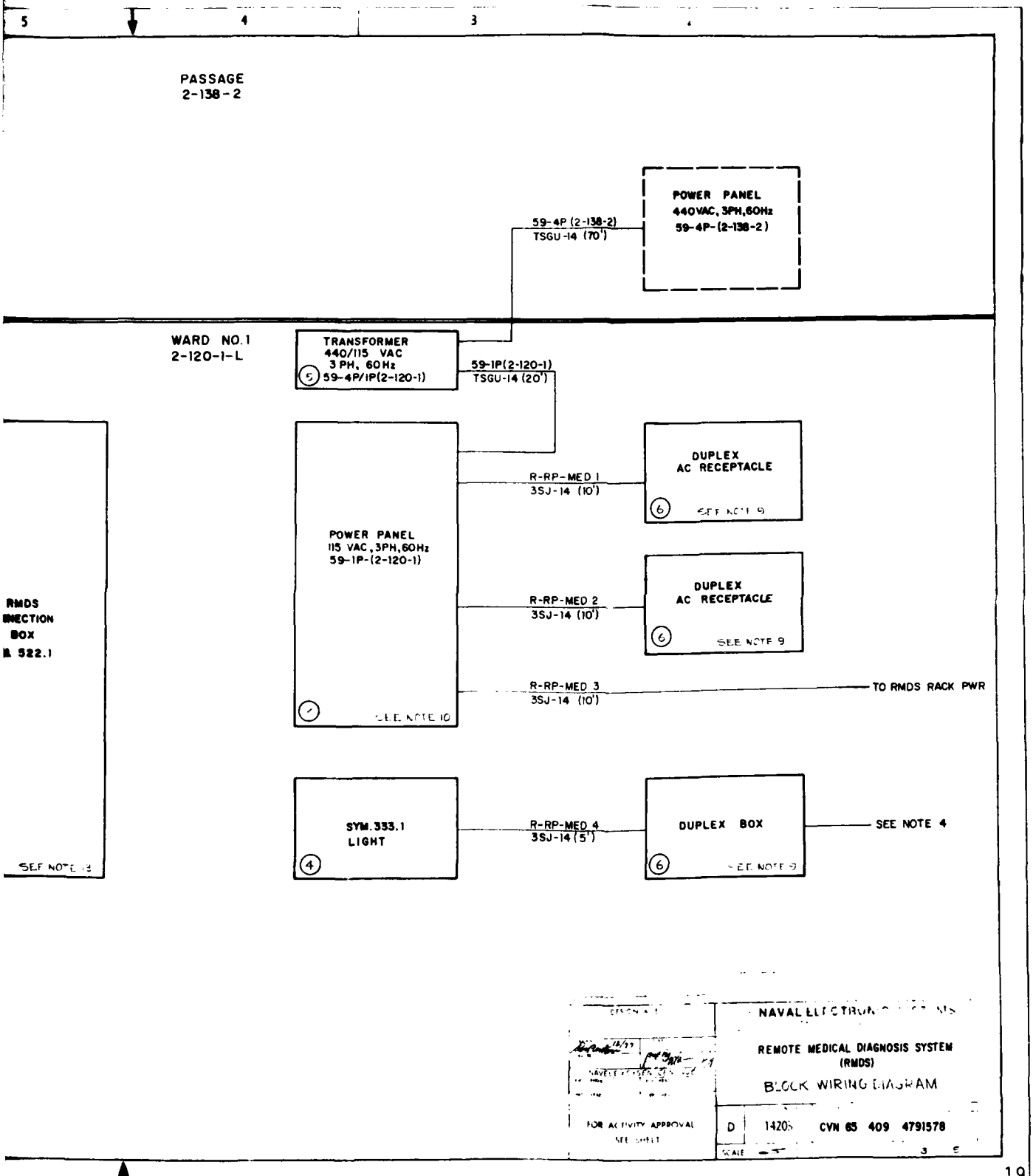
REMOTE MEDICAL DIAGNOSIS SYSTEM (RMDS)

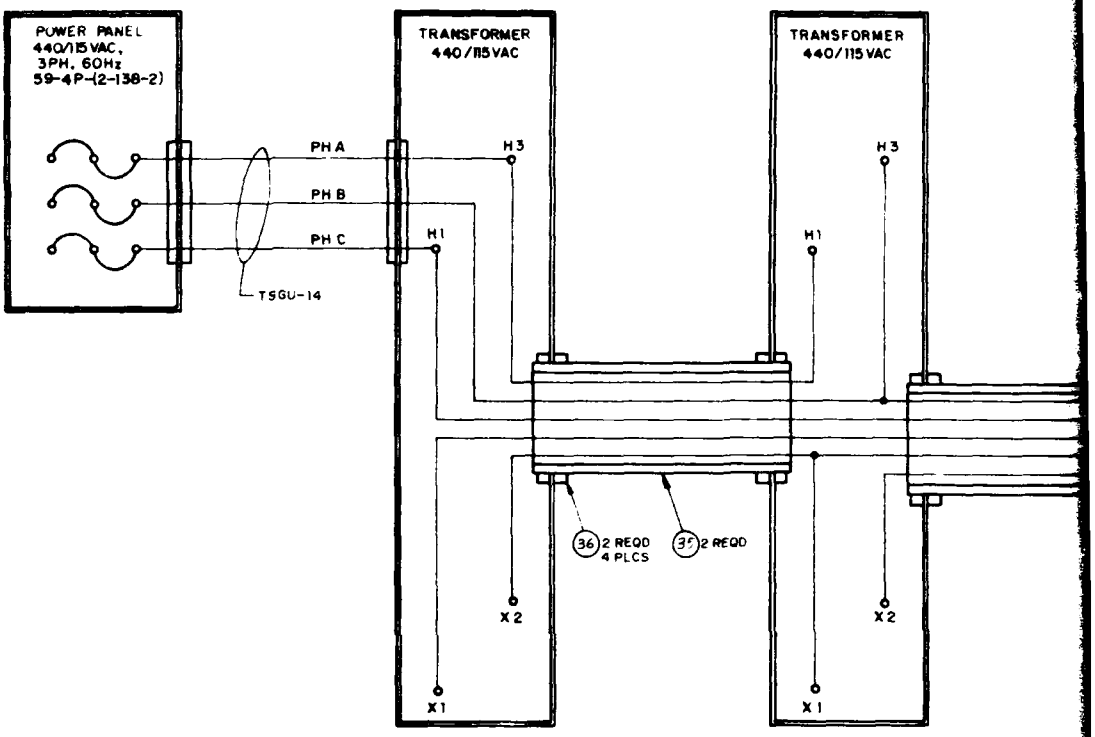
MATERIAL LIST

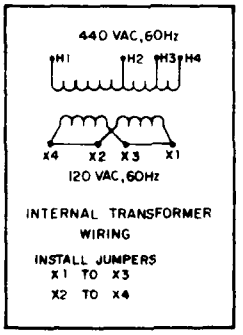
CVN 65 409 4791578

Sht 2 of 5

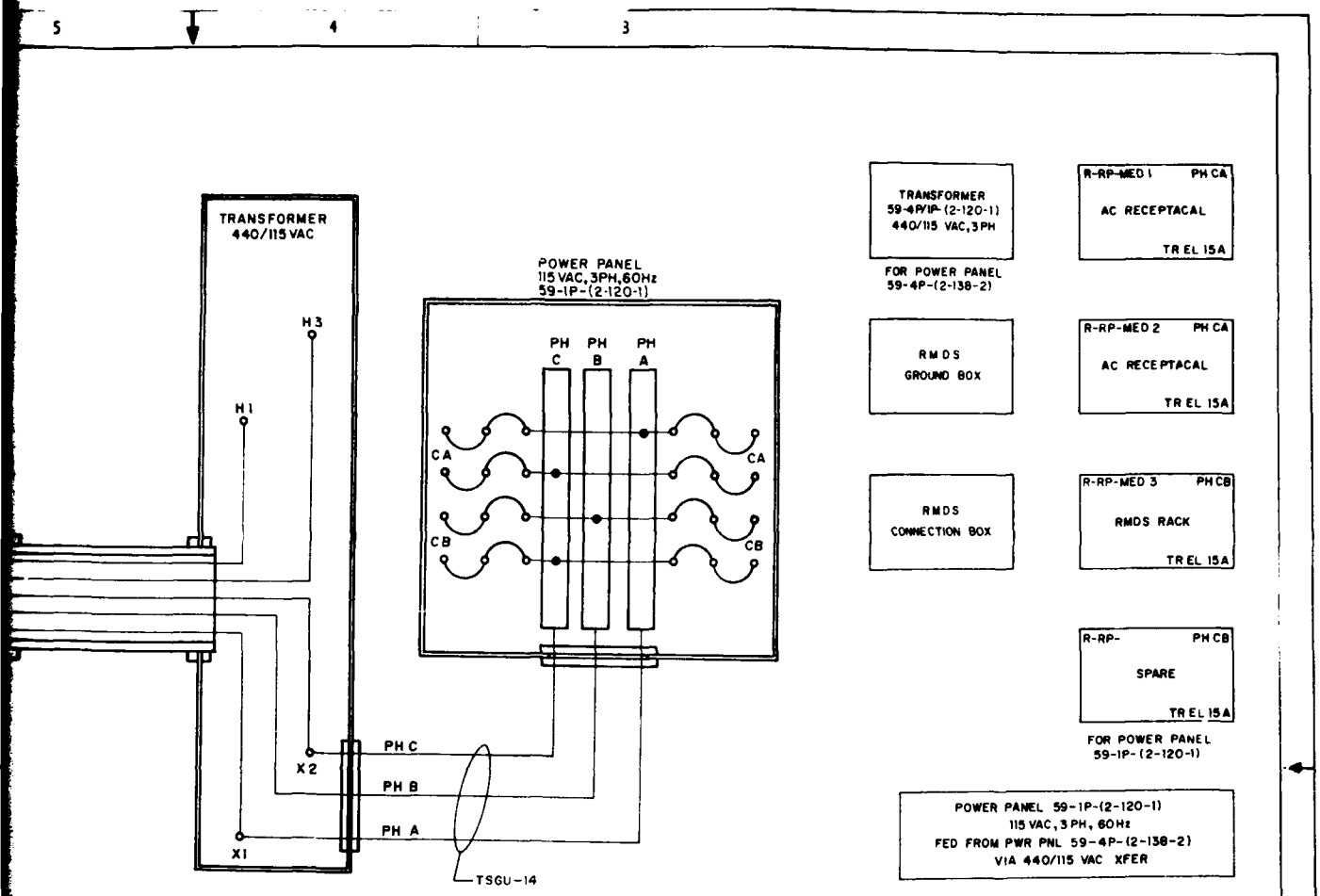

6
5
RADIO CENTRAL
03-17-1-C
SB-82/SRR
RCVR SWITCHBOARDS
SB-863/SRT
XMTR SWITCHBOARDS
R-RR-MED 1
RG-108/U (10')
R-RR-MED 2
RG-108/U (10')
R-RQ-MED 1
TTRS-8 (650')
R-RQ-MED 2
TTRS-8 (650')
C
FACILITIES CONTROL
03-17-0-C
RMDS
CONNECTION
BOX
SYM. 522.1
B
ON-143(V4)/USQ
INTERCONNECT
GROUP
J14
11
12
R-DD-MED 1
2SU-10 (10')
RMDS
GROUND
BOX
SYM. 434
1
SEE NOTE 11
R-DD-MED 1A
2SU-10 (650')
2
SEE NOTE
A


5
4
3
PASSAGE
2-138-2
POWER PANEL
440VAC, 3PH, 60Hz
59-4P-(2-138-2)
59-4P (2-138-2)
TSGU-14 (70')
WARD NO.1
2-120-1-L
TRANSFORMER
440/115 VAC
3 PH, 60Hz
(5) 59-4P/1P(2-120-1)
59-1P(2-120-1)
TSGU-14 (20')
POWER PANEL
115 VAC, 3PH, 60Hz
59-1P-(2-120-1)
(1) SEE NOTE 10
R-RP-MED 1
3SJ-14 (10')
DUPLEX
AC RECEPTACLE
(6) SEE NOTE 9
R-RP-MED 2
3SJ-14 (10')
DUPLEX
AC RECEPTACLE
(6) SEE NOTE 9
R-RP-MED 3
3SJ-14 (10')
TO RMDS RACK PWR
RMDS
INJECTION
BOX
M. 522.1
SEE NOTE 13
SYM. 333.1
LIGHT
(4)
R-RP-MED 4
3SJ-14 (5')
DUPLEX BOX
(6) SEE NOTE 9
SEE NOTE 4
NAVAL ELECTRONICS SYSTEMS
REMOTE MEDICAL DIAGNOSIS SYSTEM
(RMDS)
BLOCK WIRING DIAGRAM
FOR ACTIVITY APPROVAL
SEE SHEET
D
14205
CVN 65 409 4791578
SCALE
3
5





TYPICAL TRANSFORMER WIRING



TRANSFORMER
59-4P/1P-(2-120-1)
440/115 VAC, 3PH

FOR POWER PANEL
59-4P-(2-138-2)

RMDS
GROUND BOX

RMDS
CONNECTION BOX

R-RP-MED 1 PH CA
AC RECEPTACAL
TR EL 15A

R-RP-MED 2 PH CA
AC RECEPTACAL
TR EL 15A

R-RP-MED 3 PH CB
RMDS RACK
TR EL 15A

R-RP- PH CB
SPARE
TR EL 15A

FOR POWER PANEL
59-1P-(2-120-1)

POWER PANEL 59-1P-(2-120-1)
115 VAC, 3 PH, 60Hz
FED FROM PWR PNL 59-4P-(2-138-2)
VIA 440/115 VAC XFER

FOR POWER PNL 59-1P-(2-120-1)

RMDS NO 1

RMDS NO 1

TRANSFORMER 59-4P/1P-(2-120-1)
440/115, 3 PH, 60Hz
FED FROM PWR PNL
59-4P-(2-138-2)

FOR TRANSFORMER

RMDS NO. 2
FOR SB-82

RMDS NO. 2
FOR SB-863

WHITE LETTERS WITH BLACK BACKGROUND

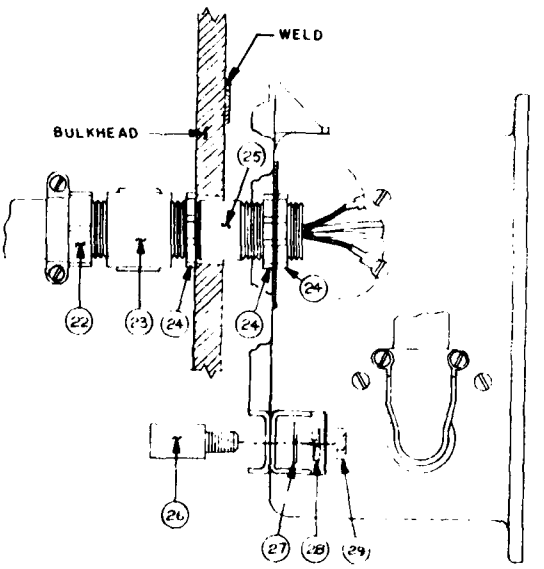
WHITE LETTERS WITH BLACK BACKGROUND

NAVAL ELE...

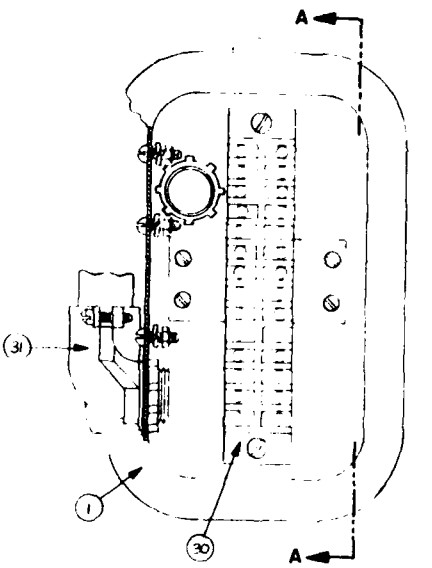
REMOTE MEDICAL DIAGNOSIS SYSTEM
(RMDS)

AC POWER AND MISCELLANEOUS DETS

14203 CVN 65 409 4791578



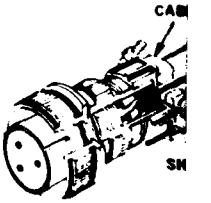
LEFT SIDE VIEW



FRONT VIEW

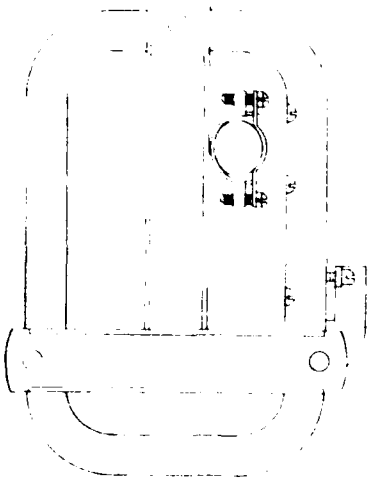
CONNECTION BOX,(GROUNDING),

SHIELD SHOULD
TO GROUND PIN
HOOKUP INFORM

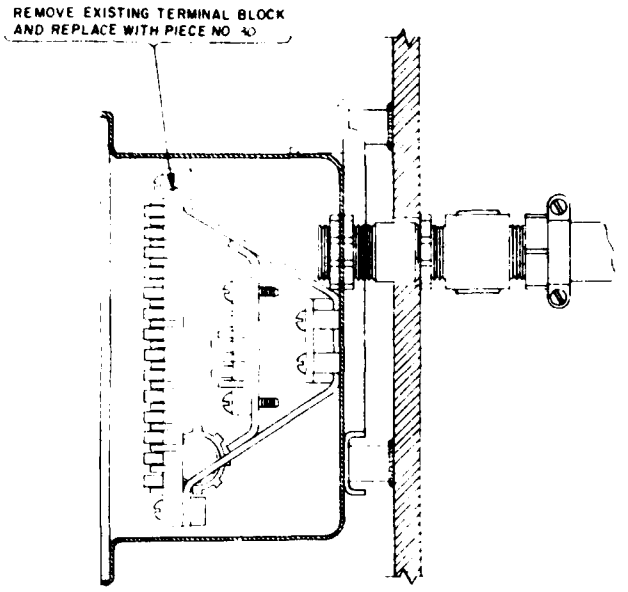


CONNECTOR PU

REV 12/74



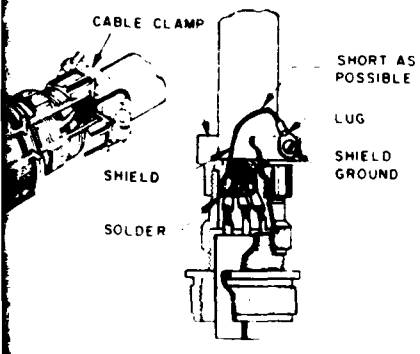
REAR VIEW



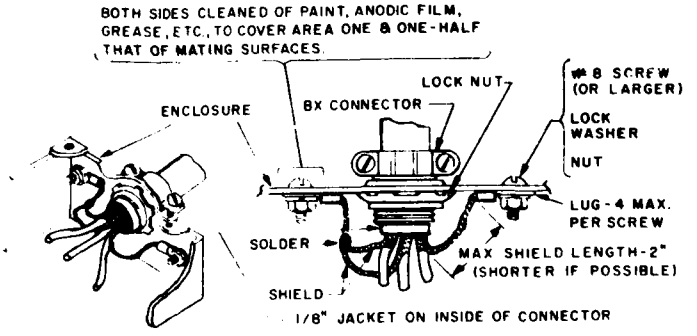
SECTION A-A

UNDING), SYM. 434, (MODIFIED 34 TERMINAL)

HIELD SHOULD ALSO BE CONNECTED
TO GROUND PIN WHEN SO INDICATED BY
OOKUP INFORMATION



CTOR PLUG GROUNDING



SHIELD GROUNDING TO CONNECTOR BOX

WESTNAVELEX STANDARD PLAN 17800	NAVAL ELECTRONIC SYSTEMS COMMAND WESTERN DIVISION			
	REMOTE MEDICAL DIAGNOSIS SYSTEM (RMDS)			
	SHLD GND AND CABLE PEN. DET TO SECURE SPACES			
FOR ACTIVITY APPROVALS SEE SHEET 1	D 14203	CVN 65	409	4791578
	SCALE NONE			SH 5 OF 5

8 7 6 5

GENERAL NOTES:

1. NUMBER ENCLOSED IN CIRCLE ( ) IS NOTE'S MATERIAL FIND NUMBER.
2. THIS DRAWING SPECIFICALLY APPLICABLE TO THE SHIPS LISTED IN THE DRAWING ISSUED BLOCK, ZONE 3A.
3. ALL WELDING TO BE IN ACCORDANCE WITH NSTM 0901-920-0003 AND NSTM 900 000 1000.
4. TEMPLATE ALL WORK FROM SHIPBOARD EQUIPMENT.
5. ALL FOUNDATIONS TO BE SET PARALLEL TO BASELINE.
6. GRIND SMOOTH ALL BURRS AND SHARP EDGES AND REMOVE ALL WELD SLAG.
7. PAINT ALL EXPOSED SURFACES TO MATCH SURROUNDING COLOR IN ACCORDANCE NSTM 0902 320 5000 SECTION 631.
8. REPAIR AND RETEST ALL INSULATION DAMAGED BY THIS INSTALLATION IN ACCORDANCE WITH NSTM 0902-001-5000, SECTION 635.
9. ALL ELECTRICAL AND ELECTRONIC EQUIPMENT INCLUDING CABINET, PC NO 1, AND DESK, PC NO 2, SHALL BE GROUNDED IN ACCORDANCE WITH MIL STD 1310C.
10. MOUNT TRANSFORMER PC SUPPORTING 2½ x 2½ x ¼ STEEL ANGLE PC NO 10, 2 PIECES REQD APPROX 21" EACH. MOUNT TO PART IN TACTICAL OUTSIDE WIRE NO 1, FR 60 2ND DECK.

DISTRIBUTION

	VESSEL NO	CVN 65
	REVISION	2
	DATE	1 16 78
	CVN 65	2
	NOSC	2
TYCOM	SURFPAC	
TYCOM	SURFLANT	
TYCOM	AIRPAC	1
TYCOM	AIRLANT	
TYCOM	SUBPAC	
TYCOM	SUBLANT	
SHIPYARDS	LONG BEACH	
SHIPYARDS	PUGET SOUND	1
SHIPYARDS	CHAS	
SHIPYARDS	NORFOLK	
SHIPYARDS	PEARL	
SHIPYARDS	MARE ISLAND	
SHIPYARDS	PHIL	
SHIPYARDS	PORTS	
PERA	CV	1
PERA	CSS	
PERA	CRUDES	
PERA	ASC	
	NAVSEA	1
	NAVELEX	
	TOTAL	8

NO	TITLE
2	CABLE RUNNING LISTS
1	RMD'S BLOCK WIRING DIAGRAM

INDEX	
SHEET	TITLE
1	TITLE, INDEX, NOTES, REFERENCES, APPLICABILITIES
2	MATERIAL LIST
3	AREA PLAN, ELEVATION & SECTION
4	FOUNDATION DETAILS

REVISIONS			
ZONE	LTR	DESCRIPTION	DATE / APPD. BY

RMDS EQUIP ARR AND FDNS

REFERENCES							
DRAWING LISTS	4203	CVN65 409 4791577					
SK WIRING DIAGRAM	14203	CVN65 409 4791578	~	CVN 65	FOW2	11 6	8
TITLE	CODE IDENT	NAVSEASYSCOM	REV	SHIP	CODE	DATE	
	DRAWING NO		DWG ISSUED FOR				

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES
ANGLES ±
X DEC ± .XX DEC ± .XXX DEC ±
MACH FINISH
MAT'L
HEAT TREAT
SURFACE TREAT
NEXT ASSY
FINISH
BREAK SHARP EDGES
INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL D 1000
DO NOT SCALE THIS DRAWING

DESIGN AGENT
DRAWN
CHECKED
ENGINEER
APPROVED
MANUFACTURING
QUALITY ASSURANCE
CHIEF ENGINEER
PROJ

NAVAL ELECTRONIC SYSTEMS
ENGINEERING CENTER VALLEJO
VALLEJO CALIFORNIA 94592

REMOTE MEDICAL DIAGNOSIS SYSTEM (RMDS)

EQUIPMENT ARRANGEMENT AND FOUNDATIONS

SIZE	CODE IDENT NO	NAVSEASYSCOM DRAWING NO			REV
D	14203	CVN-65	445	4791576	~
SCALE: 3/8				SH 1 OF 4	

25

1

2

8 | 7 | 6 | 5

D

GENERAL NOTES CONTINUED:

11 SYMBOL ⊖ DENOTES MATERIAL PIECE NO AS FOLLOWS: UPPER SECTION REFERS TO PIECE PARTS, LOWER SECTION REFERS TO MATERIAL FIND NUMBER AS REFERENCED ON LIST OF MATERIALS THIS SHEET.

12 TEMPLATE CABINET CORNER BACKING BRACES, PC NO 9, AND SWAY BRACE, PC NO 4, TO CABINET, PC NO 1, AND VERTICAL ANGLES, PC NO 3, DRILL AND MOUNT TO SUIT.

13. TEMPLATE CAMERA SUPPORT SWAY BRACE, PC NO 5, TO CAMERA SUPPORT ANGLE AND DESK, DRILL AND MOUNT TO SUIT.

14 MOUNT CABINET, PC NO 1, AND DESK, PC NO 2, TO DECK USING 3/8-16 STUDS.

15 REMOVE TWO BUNKS PRIOR TO INSTALLATION OF RMDS EQUIPMENT AND FOUNDATIONS.

C

B

A

REV	QTY	PIECE NO	DESCRIPTION	IDENTIFICATION NO	UNIT WEIGHT	TOTAL WEIGHT	MATERIAL	SPEC	FEDERAL STOCK NO	REMARKS
	2	10	ANGLE 2 1/2 X 2 1/2 X 3/16 X 2' 0"		8	16	STEEL			FOR PC NO 5 RE
	2	9	CORNER BACKING BRACKET	12 X 2 X 3/16 FLT BAR	2	4	STEEL			
	2	8	LIGHT FOUNDATION		3	6	STEEL			
	1	7	LIGHT	SYM 33-1	12	12				ORDERED ON RE
	2	6	FLAT BAR 21 3/4 X 3 X 3/16		4	8	STEEL			
	1	5	CAMERA SUPPORT SWAY BRACE		5	5	STEEL			
	1	4	CABINET SWAY BRACE		12	12	STEEL			
	3	3	ANGLE 2 1/2 X 2 1/2 X 3/16		40	120	STEEL			
	1	2	DESK		60	60				INCLUDES CAME
	1	1	CABINET		300	300				

LIST OF MATERIAL

LEGEND:

IAF INSTALLING ACTIVITY FURNISH
GFE GOVERNMENT FURNISHED EQUIPMENT

R PLUGS REF 1	IAF
	IAF
	IAF
DEREC ON REF 1	GFE
	IAF
	IAF
	IAF
	IAF
LUDES CAMERA & MTG	GFE
	GFE
REMARKS	SOURCE

DESIGN AGENT

NAVELEXSYSBRGEN VJO

FOR ACTIVITY APPROVALS
SEE SHEET 1

NAVAL ELECTRONIC SYSTEMS
ENGINEERING CENTER VALLEJO
VALLEJO CALIFORNIA

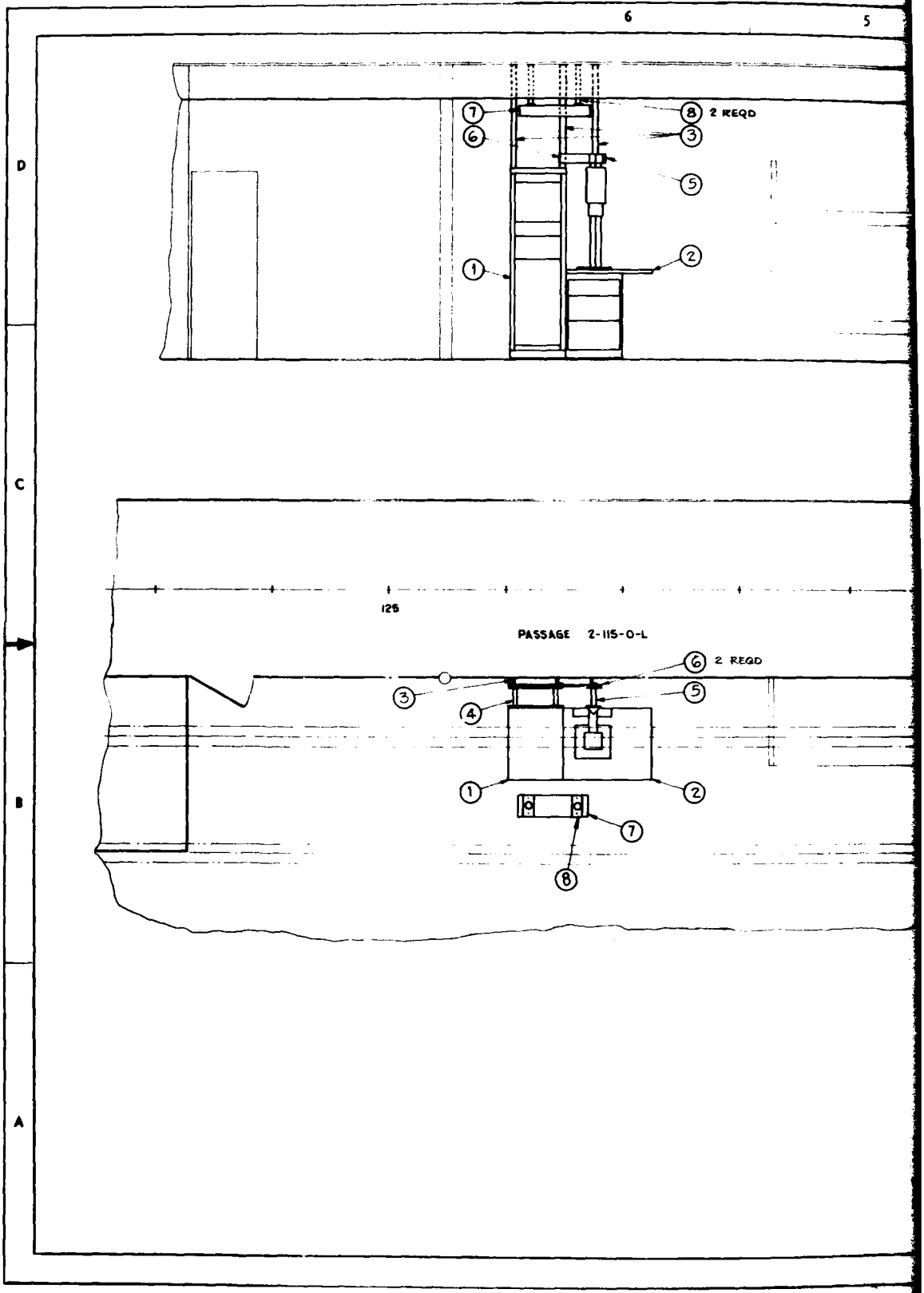
REMOTE MEDICAL DIAGNOSIS SYSTEM
(RMDS)

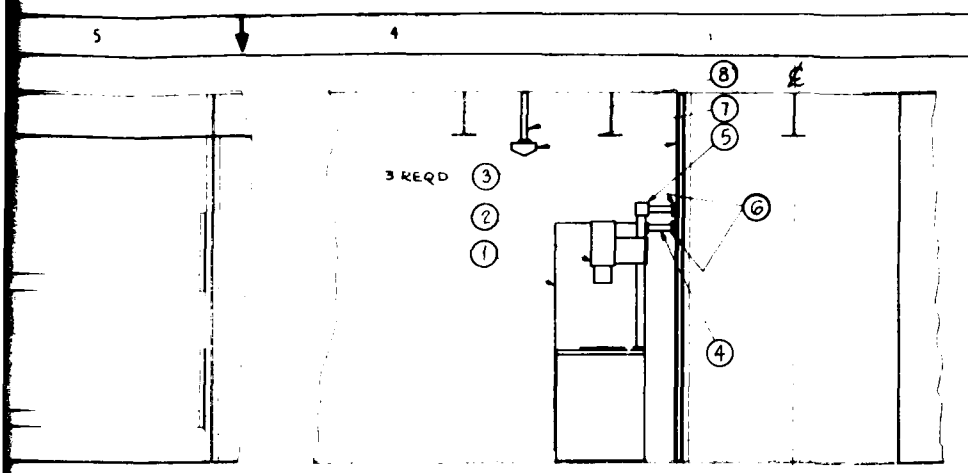
MATERIAL LIST

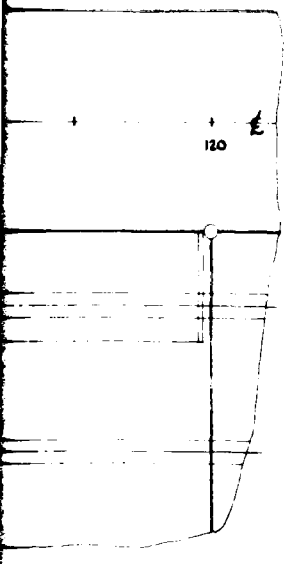
SIZE	COST CNTR NO	NAVELEXSYSCOM DRAWING NO			REV
D	14203	CVN 65	445	4791576	~

SCALE:

SH 2 OF 4

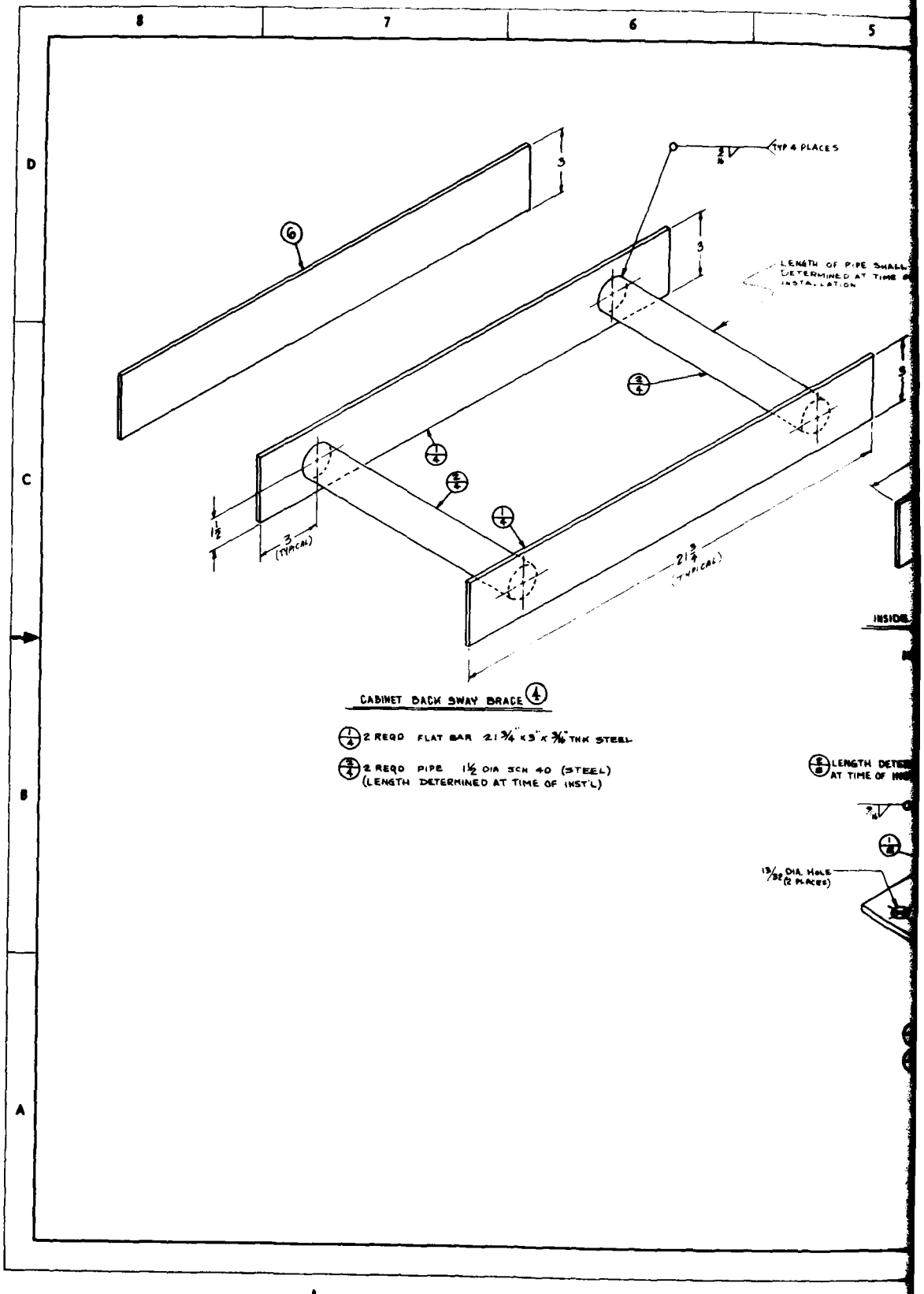

6
5
D
C
B
A
7
6
8
2 REQD
3
5
1
2
125
PASSAGE 2-115-0-L
6
2 REQD
3
5
4
1
2
7
8





REMOTE MEDICAL DIAGNOSIS SYSTEM
(RMDS)
ARRANGEMENT AND ELEVATIONS

CVN 65 445 4791576

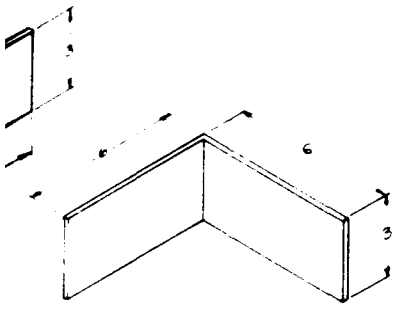


CABINET BACK SWAY BRACE (4)

(1) 2 REQD FLAT BAR 21¾" x 3" x 3/16" THK STEEL

(2) 2 REQD PIPE 1½ DIA SCH 40 (STEEL)
(LENGTH DETERMINED AT TIME OF INST'L)

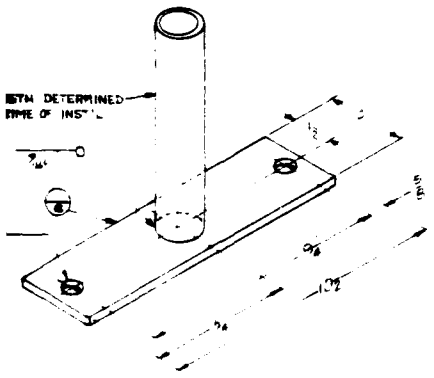
(5) LENGTH DETE... AT TIME OF IN...



INSIDE TOP CORNER BACKING BRACKET (9)

2 REQ'D

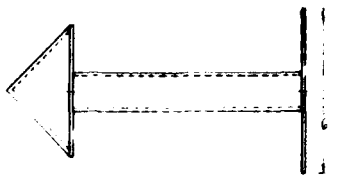
MATERIAL 3/16 THK STEEL



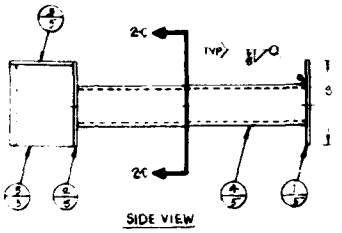
LIGHT FOUNDATION (8)

(1/8) 2 REQD FLAT BAR 10½" x 3" x 3/16" STEEL

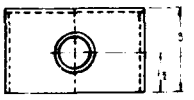
(6/8) 2 REQD PIPE 1½ DIA SCH 40 STEEL



TOP VIEW



SIDE VIEW



SECTION 2-C

CAMERA SUPPORT SWAY BRACE (5)

(1/5) FLAT BAR 6" x 3" x 3/16" THK STEEL

(2/5) FLAT BAR 3" x 3/16" (LENGTH TO SUIT ANGLE)

(3/5) TOP x 3/16" (SIZE TO SUIT ANGLE)

(4/5) PIPE (STL) 1½ DIA SCH 40 (LENGTH DETERMINED AT TIME OF INSTL)

(8/8) ANGLE (STL) (DIMENSIONS DETERMINED AT TIME OF INSTL)

DESIGN AGENT	NAVAL ELECTRONIC SYSTEMS ENGINEERING CENTER VALLEJO		
FOR ACTIVITY APPROVALS SEE SHEET 1	REMOTE MEDICAL DIAGNOSIS SYSTEM (RMDS)		
	FOUNDATION DETAILS		
	SIZE: D	CODE IDENT NO: 14203	SHIP/ATP/CON DRAWING NO: CVN 65 445 4791576
	SCALE:		SH 4 OF 4